

## INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

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S-E-C-R-E-T

50X1-HUM

COUNTRY USSR (Moscow Oblast, Astrakhan Oblast) REPORT

SUBJECT Fuels Used for Guided Missiles

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REFERENCES

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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

A brief report on fuels used for guided missiles

The report contains

information on the propulsion systems used for the following guided missile projects: 301-G, V-301, and 32-B.

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STATE	#X ARMY	#X NAVY	#X AIR	#X FBI	AEC				
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10 December 1958

RETURNEE EXPLOITATION GROUP MEMORANDUM

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[REDACTED]  
[REDACTED] missile fuels used for guided  
missiles designed at Leningradskoye shosse institute.

2. The questions and answers were as follows:

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[REDACTED] type of liquid fuel and oxidizer [REDACTED] proposed  
for the missile project 301-G [REDACTED]

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[REDACTED] the propulsion system for the 301-G project  
was the same as that of the V-301; that is, the  
propellant was nitric acid and kerosene; [REDACTED]

In November 1951, a surface-to-air missile designated  
32-B was designed at the Leningradskoye shosse

[REDACTED] the 32-B missile had a solid  
propellant booster and a liquid propellant sustainer.  
Specific reference was made to the solid propellant  
booster; the Soviet said that, because it was a  
solid propellant, one could not predict the exact  
booster performance. [REDACTED]

[REDACTED] In 1951,

[REDACTED] A.P. Balashov  
remarked that "they" were using a Walter-type engine;  
[this presumably refers to a type of missile engine  
manufactured by the German firm Walter during World  
War II]. At the time, [REDACTED] perhaps  
missiles with Walter-type engines were being tested  
at Kapustin Yar; there was nothing to substantiate  
this thought other than the general conversation [REDACTED]  
[REDACTED] overheard.

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[REDACTED]  
[REDACTED]  
[REDACTED] type of propellants [REDACTED] proposed for the long-  
range surface-to-surface ICBM missile [REDACTED]

[REDACTED]  
[REDACTED] this particular missile was not  
in existence. There was no urgency related to the  
project nor any pressure from the Soviets.

[REDACTED]  
[REDACTED] firing of the V-301 missile [REDACTED]  
color of the exhaust flame?

[REDACTED] it was a  
yellowish flame about one-half the length of the  
missile. On one occasion, when a V-301 missile  
crashed during launching, the smoke and fumes were  
yellowish brown in color. [REDACTED]  
[REDACTED]

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